

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P756140

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D95BD010-EU4DR3070959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9501.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

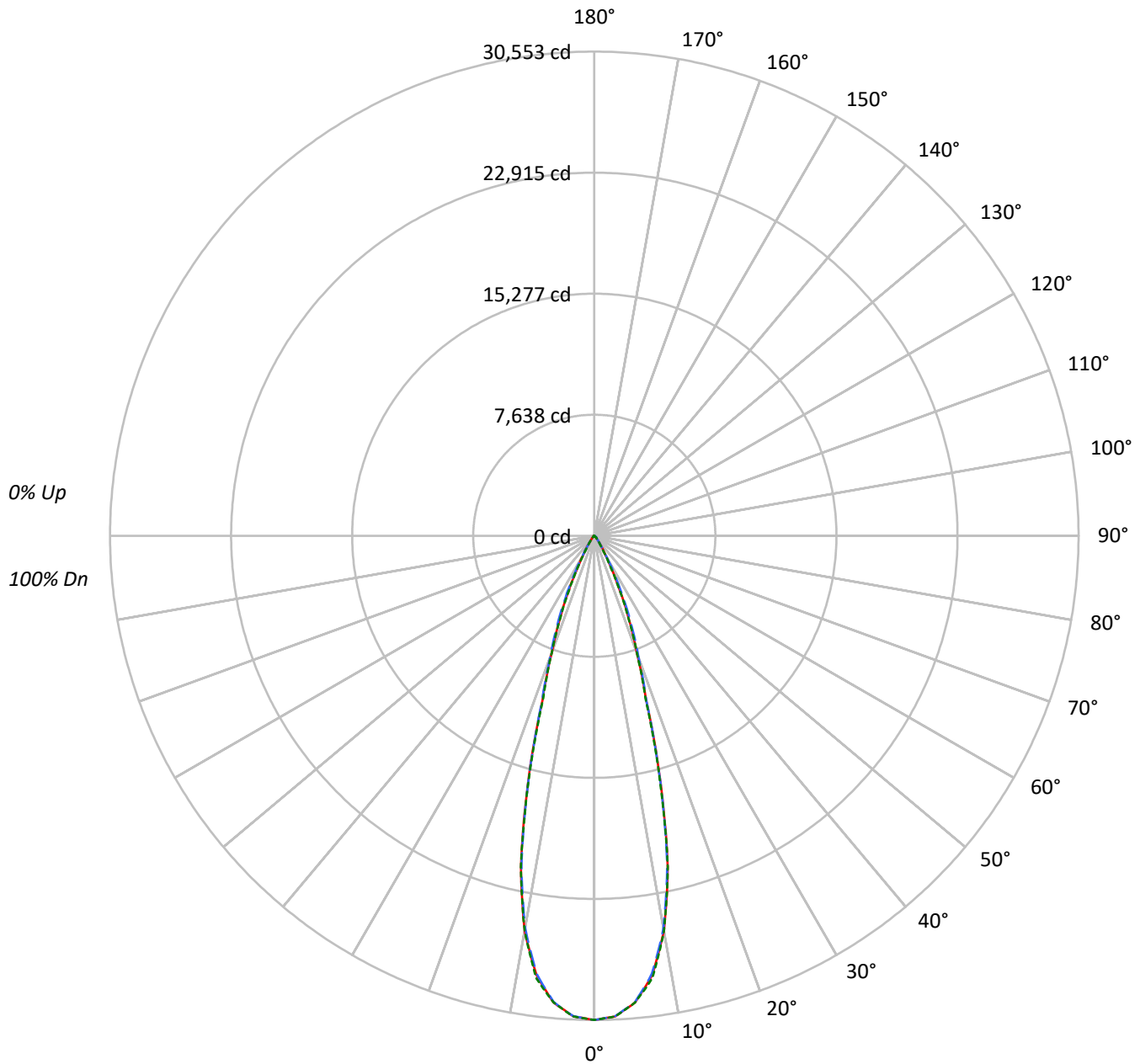


Downlight

TEST NUMBER: P756140

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			96
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			92
3	107	102	98	95	105	101	97	94		98	95	93			96	93	91			89
4	103	98	93	90	102	96	93	90		94	91	89			93	90	88			85
5	100	94	89	86	98	93	89	86		91	88	85			90	86	84			82
6	97	90	85	82	95	89	85	82		88	84	81			87	83	81			79
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			77
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			74
9	88	81	76	73	87	80	76	73		80	76	73			79	75	73			72
10	85	78	74	71	85	78	74	71		77	73	71			76	73	71			69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2338638	2338638	2338638
5°	2271504	2268853	2271619
10°	1967464	1953590	1966997
15°	1283674	1276780	1270361
20°	638312	662260	637457
25°	321534	362588	314946
30°	128741	140275	112160
35°	59710	57187	47936
40°	25779	28627	24281
45°	18186	22570	18348
50°	6252	16433	6609
55°	3603	6806	3803
60°	2526	2985	2526
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22570 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2686.7	28.3
10°-20°	4326.9	45.5
20°-30°	1869.8	19.7
30°-40°	426.1	4.5
40°-50°	146.3	1.5
50°-60°	35.7	0.4
60°-70°	9.3	0.1
70°-80°	1.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8883.4	93.5
0°-40°	9309.5	98.0
0°-60°	9491.6	99.9
0°-90°	9501.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9501.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30553	30553	30553	30553	30553	
5°	29563	29535	29529	29590	29565	2689
15°	16199	16004	16112	16060	16031	4338
25°	3807	3951	4293	3851	3729	1822
35°	639	652	612	608	513	433
45°	168	208	208	208	170	119
55°	27	28	51	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30553.1	30553.1	30553.1	30553.1	30553.1
2.5°	30350.6	30329.6	30341.6	30356.6	30362.6
5°	29563.1	29534.6	29528.6	29590.1	29564.6
7.5°	27974.5	27934.0	27872.5	28012.0	28142.5
10°	25313.4	25268.4	25134.9	25200.9	25307.4
12.5°	21384.8	21239.3	21236.3	21446.3	21417.8
15°	16199.1	16004.1	16112.1	16059.6	16031.1
17.5°	10893.4	10818.4	10962.4	10918.9	10731.4
20°	7836.3	7855.8	8130.3	7992.3	7825.8
22.5°	5718.2	5788.7	6114.2	5758.7	5628.2
25°	3807.1	3951.1	4293.2	3850.6	3729.1
27.5°	2341.6	2407.6	2754.1	2311.6	2245.6
30°	1456.6	1423.6	1587.1	1362.0	1269.0
32.5°	955.5	913.5	966.0	867.0	792.0
35°	639.0	652.5	612.0	607.5	513.0
37.5°	399.0	459.0	405.0	432.0	330.0
40°	258.0	333.0	286.5	316.5	243.0
42.5°	211.5	256.5	235.5	250.5	216.0
45°	168.0	208.5	208.5	208.5	169.5
47.5°	93.0	139.5	178.5	142.5	99.0
50°	52.5	70.5	138.0	73.5	55.5
52.5°	36.0	40.5	94.5	42.0	37.5
55°	27.0	28.5	51.0	30.0	28.5
57.5°	21.0	22.5	27.0	22.5	21.0
60°	16.5	16.5	19.5	18.0	16.5
62.5°	12.0	12.0	13.5	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)